

RAZUMOVSKIY, N.O.; TORCHINSKAYA, O.L.

Distribution and binding of  $Ce^{144}$  in the bone tissue. Med. rad.  
5 no.11:46-49 N '60. (MIRA 13:12)  
(CERIUM METABOLISM)

**"APPROVED FOR RELEASE: 08/31/2001**

**CIA-RDP86-00513R001756320007-0**

**APPROVED FOR RELEASE: 08/31/2001**

**CIA-RDP86-00513R001756320007-0"**

**"APPROVED FOR RELEASE: 08/31/2001**

**CIA-RDP86-00513R001756320007-0**

**APPROVED FOR RELEASE: 08/31/2001**

**CIA-RDP86-00513R001756320007-0"**

L 34121-65 ENG(J)/ENI(M) GS

ACCESSION NR: AT5006139

S/0000/64/000/000/0334/0337

AUTHOR Pazimovskiy, H. O. Tarkhin, V. I.

Card 1/2

L 34121-65

ACCESSION NR: AT5006139

hour before or onehalf hour after intraperitoneal injection of  $\text{Sr}^{89}$ , the amount of

2

ASSOCIATION: none

ENCL: 00

SUB CODE: 1

LS

NO REF SOV: 000

OTHER: 000

Card 2/2

"APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R001756320007-0

Card

APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R001756320007-0"

**"APPROVED FOR RELEASE: 08/31/2001**

**CIA-RDP86-00513R001756320007-0**

**APPROVED FOR RELEASE: 08/31/2001**

**CIA-RDP86-00513R001756320007-0"**

S/205/61/001/004/009/032  
D208/D303

AUTHORS: Razumovskiy, N. O., Torchinskaya, O. L., and Balabukha, V. S.

TITLE: Acceleration of the excretion of the radioactive isotopes of yttrium and cerium ( $Y^{91}$  and  $Ce^{144}$ ) from rats with the help of new complexones

PERIODICAL: Radiobiologiya, v. 1, no. 4, 1961, 513-516

TEXT: Previous research established that the injection of rats with solutions of NaCa salts of diethylene-triamine-pentacetic acid (DTPA) and  $N_1N_1N'_1N'_1$ -tetraacetic acid 2.2'-diaminodiethyl alcohol (DEETA) at

the same time as  $Y^{91}$  and  $Ce^{144}$  to a large extent prevented their deposition in both the soft tissues and the skeleton. This stimulated the authors to study the extent of these chelate agents' prophylactic effect. With this aim, solutions of the above complexones were injected

Card 1/4



Acceleration of the...

S/205/61/001/004/009/032  
D298/D303

into rats 2, 3 and 6 hours before the administration of  $Y^{91}$  or  $Ce^{144}$ . A study was also made of the efficacy of repeated injections of these agents. To test whether repeated injection of the complexones intensified the excretion of the radioisotopes, injections were begun 1 week or 1.5 months after administration of the isotopes. The experiments were conducted with white rats injected with a single intraabdominal dose of  $Y^{91}$  or  $Ce^{144}$  at  $0.1\mu c/3$  of the body weight. The complexones were injected intraabdominally in doses of 100 mg for  $Na_2Ca-DEETA$  and 50 mg for  $Na_3Ca-DTPA$ . The injection of DTPA and DEETA even 3 hours before administration of the radioactive isotope proved very effective. When injected 6 hours beforehand, their effect was weakened. The action of EDTA in the 3-hour pre-radiation period was much weaker, probably due to its rapid excretion from the body. [Abstracter's note: EDTA not defined.] The new complexones were therefore prophylactically more efficacious than EDTA. In the first 3 days after the start of repeated

Card 2/4

Acceleration of the...

S/205/61/001/004/009/032  
D298/D303

injections, excretion of the radioactive isotopes with the stools increased by 2.5 times in the case of DTPA and by 1.5 times in the case of DEETA. The excretion of  $Ce^{144}$  with the urine was even more marked: with DTPA injections, the excretion increased by 8 times and with DEETA by 4 times, whereas EDTA gave only a slight excretion increase. The action of DEETA and DTPA on the excretion also extended into the second period (4 - 7th day), which was not the case with EDTA. Repeated injections begun 1.5 months after the administration of  $Ce^{144}$  or  $Y^{91}$  showed that even at remote periods a marked intensification of  $Y^{91}$  excretion from the soft tissues (an average increase of 85 - 90%) and from the skeleton (by 30 - 35%) could be achieved.  $Ce^{144}$  excretion was similarly affected, but to a lesser degree. A point of interest was that, after injection of the complexones, skeletal radio-activity (from both  $Y^{91}$  and  $Ce^{144}$ ) reached a more or less constant level. This points to the presence of two fractions of radioisotope in the bone tissue--a labilely

Card 3/4

✓

Acceleration of the...

S/205/61/001/004/009/032  
D298/D303

bonded and a more strongly fixed fraction. The first fraction may be removed from the skeleton by using the complexones, but they have no effect on the second fraction. There are 2 figures, 3 tables and 8 references: 2 Soviet-bloc and 6 non-Soviet-bloc. The references to the English-language publications read as follows: A. Catsch, D. Kh. Lê, Nature, 180, 609, 1957; H. Foreman, M. Vier, M. Magee, J. Biol. Chem., 203, 1045, 1953.

SUBMITTED: April 7, 1961

Card 4/4

✓

RAZUMOVSKIY, N.O.; TORCHINSKAYA, O.L.; BALABUKHA, V.S.

Decreasing the deposit of  $Y^{91}$  and  $Ce^{144}$  in the body by using  
some complexing agents. Biofizika 6 no.5:610-614 '61. (MIRA 15:3)

(YTTRIUM---ISOTOPES)

(CERIUM---ISOTOPES)

(COMPLEX COMPOUNDS)

TORCHINSKAYA, O.L.; RAZUMOVSKIY, N.O.; YASHUNSKIY, V.G.; BALABUKHA, V.S.  
USHAKOVA, V.F.

Excretion of radioactive cerium from the body under the influence of triethylenetetraaminehexaacetic and tetraethylenepentaminoheptoacetic acids. Radiobiologiya 3 no.2:270-275 '63  
(MIRA 17:1)

RAZUMOVSKIY, N.O.; TORCHINSKAYA, O.I. (Moskva)

Distribution and excretion of  $Y^{91}$  and  $Ce^{144}$  from the body. Med. rad.  
10 no.1:24-27 Ja '65. (MIRA 18:7)

PETROVICH, I.K.; RAZUMOVSKIY, N.O.; TORCHINSKAYA, O.L.

Late sequelae of radiation lesions to dogs caused by  $\text{Sr}^{90}$ .  
Med. rad. 9 no.6:48-50 Je '64. (MIRA 18:2)

GULINOVA, L. [Hulinova, L.], kand.tekhn.nauk; BOGDANOVICH, G. [Bohdanovych, H.],  
inzh.; DOBROVA, A., ~~inzh.~~; TORCHINSKAYA, S. [Torchyns'ka S.], inzh.

Causes of the deformation of gypsum concrete slabs manufactured by the  
rolling method. Bud. mat. i konstr. 4 no.1:39-40 Ja-F '62.  
(MIRA 15:7)

(Concrete slabs)



GULINOVA, L.G., kand.tekhn.nauk; BOGDANOVICH, G.N., inzh.; TORCHINSKAYA,  
S.A., inzh.; DOBROVA, A.T., inzh.; MARCHENKOVA, N.M., inzh.

Using gypsum-concrete based on various aggregates in making  
large-panel rolled partitions. Stroi.mat. 6 no.2:7-9 F '60.  
(MIRA 13:6)

(Concrete) (Walls)

Torchinskaya SA

GULINOVA, L.G., kand.tekhn.nauk; ZAIONCHKOVSKIY, B.F., kand.tekhn.  
nauk; TORCHINSKAYA, S.A., inzh.

Experimental manufacture of large gypsum concrete wall blocks.  
Nov. v stroi. tekhn. no.12:91-109 '57. (MIRA 11:1)  
(Concrete blocks)

TORCHINSKAYA, S. A.  
USSR/ Chemistry - Structural materials

Card 1/1 Pub. 116 - 24/24

Authors : Budnikov, P. P.; Gulinova, L. G.; and Torchinskaya, S. A.

Title : Unkilned plaster cement and the increase of its water resistance

Periodical : Ukr. khim. zhur. 21/2, 274-282, 1955

Abstract : Data are presented regarding the manufacture of unkilned highly waterproof structural plaster cement. Four USSR references (1930-1954). Tables; illustrations.

Institution : Acad. of Architecture, Ukr. SSR. Inst. of Structural Materials

Submitted : June 10, 1954

TORCHINSKAYA, V.A.

Physiopathology of manic-depressive psychosis. Zhur. nevr. i psikh.  
54 no.11:934-940 N '54. (MLRA 8:1)

1. Psikhonevrologicheskaya bol'nitsa No.4 imeni P.B.Gannushkina i  
TSentral'nyy institut psikhiatrii Ministerstva zdravookhraneniya  
RSFSR.

(PSYCHOSES, MANIC-DEPRESSIVE, pathology,  
physiopathol.)

TORCHINSKAYA, V.M. [Torchyns'ka, V.M.]

Effect of 2,4-dichlorophenoxyacetic acid on growth, reproduction,  
and nitrogen metabolism in a number of weeds. Biol.zbir. no.8:  
141-148 '58. (MIRA 12:7)  
(2,4-D)

TORCHINSKAYA, V.M.

Effect of 2,4-dichlorophenoxyacetic acid on nitrogen metabolism in  
lupine seedlings and withering makhorka leaves. Dokl. AN SSSR 120  
no. 5:1144-1146 Je '58. (MIRA 11:8)

1. L'vovskiy gosudarstvennyy universitet im. I.Franko. Predstavleno  
akademikom A.L.Kursanovym.

(Plants, Effect of 2,4-D on)

(Nitrogen metabolism)

(Lupine)

(Tobacco)

AUTHOR:

Torchinskaya, V. M.

SOV/20-120-5-60/67

TITLE:

~~The Effect Produced by 2,4-Dichlorophenoxyacetic Acid Upon~~  
Nitrogen Metabolism in Lupine Seedlings and Withering Leaves  
of Nicotiana rustica (Vliyaniye 2,4-dikhlorfenoksiukuseno-  
y kisloty na obmen azotistyykh veshchestv u prorostkov lyupina  
i podvyadayushchikh list'yev makhorki)

PERIODICAL:

Doklady Akademii nauk SSSR, 1958, Vol. 120, Nr 5, pp. 1144-1146  
(USSR)

ABSTRACT:

The use of weed killers containing the mentioned acid (2,4-D) causes disturbances of metabolism in sensitive plants which finally lead to the perishing of these plants. The disturbances of the nitrogen- and especially of the protein metabolism are of special interest. Under the influence of 2,4-D the assimilation of nitrogen by the plant is reduced (Ref 1). Proteins are hydrolyzed in the leaves (Refs 3, 5). The products of hydrolysis penetrate into the stems and roots where the nitrogen content increases from time to time (Refs 1, 5, 9-11). As is known amides are synthesized during the germination of the seeds and the withering of the leaves (Ref 7). It was important to investigate the conservation of this

Card 1/3

SOV/20-120-5-60/67

The Effect Produced by 2,4-Dichlorophenoxyacetic Acid Upon Nitrogen Metabolism in Lupine Seedlings and Withering Leaves of Nicotiana rustica

capability under the application of toxic materials such as 2,4-D. As is shown on table 1 the dry weight of the seedlings of the blue lupine and of the Indian tobacco leaves is reduced under the influence of the 2,4-D-infiltration. The total protein content increases on this occasion while protein hydmlysis is retarded. The ratio of the amido-, amino acids-, and ammonia-nitrogen in soluble nitrogen is changed. Amide synthesis is suppressed so that considerable quantities of ammonia are stored. The accumulation of amino-nitrogen is less suppressed. The amino acids forming on the occasion of the protein hydrololysis are deaminized; the ammonia released on this occasion is not used for the amide synthesis but accumulates in the plant tissues. There are 2 tables and 11 references, 7 of which are Soviet.

ASSOCIATION: L'vovskiy gosudarstvennyy universitet im. I. Franko  
(L'vov State University imeni I. Franko)

Card 2/3



100-100-5-65,61  
The Effect Produced by 2,4-Dichlorophenoxyacetic Acid "Green Nitrogen" Metabolism in Lupine Seedlings and Withering Leaves of Nicotiana rustica

PRESENTED:

April 1, 1958, by A. I. Kursanov, Member, Academy of Sciences, USSR

SUBMITTED:

April 8, 1958

1. Herbicides--Biochemical effects
2. Plants--Pathology
3. Plants--Chemical reactions

Card 3/3

YEMEL'YANOV, A.A., kand. tekhn. nauk; TROCHITSKAYA, Ye.A., inzh.;  
AERAMOV, N.N., inzh.

Method of measuring volumetric deformations of three-dimensional  
elements of apartment houses. Anal. prich. avar. i povr. stroki.  
kon. no.2:248-253 '64. (MIRA 18:5)

10 KCHINSKAYA, YE. L.

Report presented at the 1st All-Union Congress of Theoretical and Applied Mechanics,  
Moscow, 27 Jan - 3 Feb '60.

268. L. A. Rozental (Minsk): Strain design and general stability of structures.
269. L. A. Rozental (Minsk): A general method of solving non-linear problems of structural mechanics.
270. B. D. Rogozin (Moscow): A contribution to the non-linear problems of plate flutter.
271. L. G. Rozental, B. D. Rogozin (Moscow): On the use of variational methods for the approximate solution of some problems of plastic equilibrium.
272. A. I. Spitsitskii (Leningrad): Experimental investigation of the influence of the shape of the end head beyond the elastic limit.
273. A. A. Stetsko (Moscow): Strength and visco-plastic flow of metals.
274. G. I. Tsvetkovskii (Moscow): The relation between pure pressure and rate of change of shape of alloys.
275. L. A. Tsvetkovskii (Moscow): Finite plastic strains of non-linearly deformed bodies.
276. A. B. Tsvetkovskii (Moscow): Flaring of metals by a spherical punch considering contact friction.
277. L. A. Tsvetkovskii (Moscow): An asymptotic method of calculating the finite strains of variable pitch at high speeds of rotation.
278. V. F. Tsvetkovskii (Moscow): Application of similarity methods to the analysis of the flow of rubber compounds.
279. L. A. Tsvetkovskii, L. A. Tsvetkovskii (Moscow): Dependence of the maximum elastic and discontinuous strains of aluminum on the rate of strain rate.
280. A. A. Tsvetkovskii (Moscow): An asymptotic method for the design of spherical shells.
281. V. F. Tsvetkovskii (Moscow): Some problems of soil dynamics.
282. M. I. Tsvetkovskii (Moscow): The flow in the boundary layer of an elastic, visco-plastic medium.
283. A. G. Tsvetkovskii (Moscow): Some problems concerning the analysis of stresses in aircraft ribs.
284. A. V. Tsvetkovskii (Moscow): On strength and failure criteria for metals in the presence of stress concentrations.
285. L. A. Tsvetkovskii (Moscow): Some problems of plastic equilibrium.
286. A. A. Tsvetkovskii (Moscow): Analysis and design of structural mechanical mechanisms concerning bars and tubes.
287. M. F. Tsvetkovskii (Moscow): The problem of elastic strength of structures under dynamic loads.
288. L. A. Tsvetkovskii (Moscow): Application of integral methods to the solution of some problems concerning elastic waves.
289. L. A. Tsvetkovskii (Moscow): Deformations of plastic slabs in bending.
290. L. A. Tsvetkovskii (Moscow): Elastic-plastic equilibrium of an elastic granular medium.
291. L. A. Tsvetkovskii (Moscow): Stability and vibrations of orthotropic plates of variable thickness.
292. A. I. Tsvetkovskii (Moscow): Extensional vibrations of curved plates.
293. M. F. Tsvetkovskii (Moscow): On the possibility of predicting the behavior of structures under dynamic loads.
294. L. A. Tsvetkovskii (Moscow): Some problems concerning the bending of plates and shells with stiffeners.
295. L. A. Tsvetkovskii (Moscow): On the impact of a wave on a heavy rigid plate embedded in an elastic medium.
296. V. A. Tsvetkovskii (Moscow): Some problems concerning the formation of a plastic structure.
297. L. A. Tsvetkovskii (Moscow): Present state and problems of the theory of plastic equilibrium.
298. L. A. Tsvetkovskii (Moscow): Flow conditions for saturated media.
299. L. A. Tsvetkovskii (Moscow): Experimental study of real and apparent friction in rotating bodies.
300. L. A. Tsvetkovskii (Moscow): On the construction of Green's functions for the equilibrium problem of shallow shells.
301. L. A. Tsvetkovskii (Moscow): Further development of the initial boundary value problem.
302. V. A. Tsvetkovskii (Moscow): Temperature stresses in cantilever plates and their effect on tilting.

TORCHINSKIY Anatoliy Grigor'yevich; BELYAKOV, V., red.; DANILINA, A., tekhn.  
red.

[Signs of the time; party organization and rural culture] Primety  
vremeni; partiinnye organizatsii i kul'tura derevni. Moskva, Gos.  
izd-vo polit. lit-ry, 1958. 70 p. (MIRA 11:7)  
(Belgorod Province--Rural conditions)

27

Ca

Determination of iodine value from the refractive index.  
 V. Blazhukov and M. Anshinskii. *Mashobolno Zhurnal*  
*Dela* 13, No. 6, 23 (1967).-- The relation between I value  
 (I. V.) and  $n_D^{20}$ , detd. experimentally for 24 vegetable and  
 animal oils free from oxyacids, cyclic acids and conjugated  
 bonds, is given by 2 equations:  $n_D^{20} = 1.4505 - 0.000118$   
 (I. V.) and  $n_D^{20} = 1.4517 - 0.000118$  (I. V.) (cf. Maruta  
 and Terayama, C. A. 34, 80009). A nomogram for calcg.  
 exptl. and calcd. I values are given. Chav. Blanc

ASTM-ELA METALLURGICAL LITERATURE CLASSIFICATION

L 45835-66 EWT(1)

ACC NR:

AP6030615

SOURCE CODE: UR/0413/66/000/016/0108/0108

INVENTOR: Torchitskiy, A. K.; Chekin, G. I.

ORG: none

TITLE: <sup>25</sup>Pulse recurrence <sup>25</sup>multiplier. Class 42, No. 185111

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 16, 1966, 108

TOPIC TAGS: pulse recurrence, logic circuit, memory cell, pulse recurrence rate, pulse repetition rate

ABSTRACT: To achieve simplicity and reliability, the proposed pulse recurrence multiplier contains an AND logic circuit whose zero inputs are connected with the outputs of the memory cells. The zero inputs of the latter are connected with the outputs of random phase pulse generators. The unit inputs of the memory cells are connected with the inputs of the device. Orig. art. has: 1 figure. [Translation]  
[DW]

Card 1/2

UDC: 681.142.07

L 45835-66

ACC NR: AP6030615

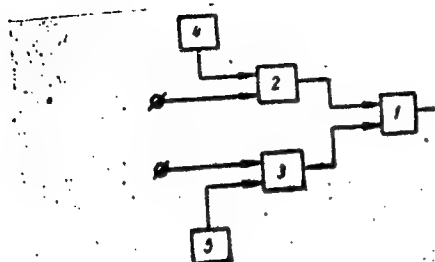


Fig. 1. Pulse repetition multiplier.  
1—Logic circuit "AND";  
2 and 3—memory cells;  
4 and 5—random phase pulse  
generators

SUB CODE: 09/ SUBM DATE: 03Mar65/

Card 2/2

PROZHIGA, G. [Prozhyha, H.]; inzh.; TORCHINSKIY, M. [Torchyns'kyi, M.], inzh..

Arched brick buildings can be built on macroporous soils. Sil'. bud.  
10 no. 11:5-6. N '60. (MIRA 13:11)

(Ukraine--Building, Brick)

(Farm buildings)



TORCHINSKIY, M. [Torchyns'kyi, M.], inzh.

Mechanized fodder preparation section at a 6,000-head swine  
farm. Sil'. bud. 11 no.8:12-14 Ag '61. (MIRA 14:9)  
(Swine houses and equipment)

BIGEYEV, A.M.; NIKULIN, Yu.P.; TORCHINSKIY, M.A.

Removal of liquid slag from open-hearth furnaces. Metallurg 10  
no.8:21-23 Ag '65. (MIRA 13:3)

1. Magnitogorskiy metallurgicheskii kombinat i Magnitogorskiy  
gornometallurgicheskii institut.

BIGEYEV, A.M.; NIKULIN, Yu.P.; TUROVSKIY, B.G.; TORCHINSKIY, M.A.

Removal of liquid slag from open-hearth furnaces by the drawing-off  
method. Izv. vys. ucheb. zav.; chern. met. 7 no.10:45-48 '64.  
(MIRA 17:11)

1. Magnitogorskiy gornometallurgicheskiy institut.

SIVOLAPOV, V. G.; TORCHINSKIY, M. A.; GOL'DENBERG, I. B.; ZUTS, K. A.

Amount of heat contained in flue gases as pulse for the regulation  
of temperatures in open-hearth furnaces. Izv. vys. ucheb. zav.;  
chern. met. 7 no.6:179-183 '64. (MIRA 17:7)

1. Magnitogorskiy gornometallurgicheskiy institut.

TOCHILNIN, V.T., kand. tekhn. nauk

Effect of road roughness on road resistance. *Trud. Dnepr. inzh.-s.tr. inst. no. 2, 1967, 68*

Effect of pavement roughness on the safe driving speed.  
Trud. 1969, 80 (Vestn. 17:5)

TORCHINSKIY, V. T.

TORCHINSKIY, V. T.: "Investigation of the possibilities of increasing the productivity of automobiles by better utilization of tractive capacities." Min Higher Education Ukrainian SSR. Khar'kov Automobile and Road Inst. Khar(kov, 1956.  
(Dissertation for the degree of doctor in Technical Sciences)

SO: Knizhnaya Letopis', No 36, 1956, Moscow.

TONCHINSKII, V. V.

Televidenie, peredacha dvizhushchikhsia izobrazhenii po radio. [Television, the transmission of moving pictures by radio]. Po materialam leksii. Moskva [Pravda] 1948. 12;. illus. Chto chitat po televideniiu: 1p. at end. DLC: TK6430.T6

SO: Soviet Transportation and Communication, A Bibliography, Library of Congress, Reference Department, Washington, 1952, Unclassified.

TORCHINSKIY, Ya.M.

Using a typical method for determining the economic efficiency  
of capital investments in the technical and economic analysis  
of designs of city gas-supply systems. Gaz. delo no.4:32-35'64  
(MIRA 17:7)

1. Uirgiprogorpromgaz.



TORCHINSKIY, Ya.M.

Calculating a low-pressure ring distributing main system. Gaz.prom.  
7 no.1:28-32 '62. (MIRA 15:1)

(Gas distribution)

DORFMAN, L.I.; TORCHINSKIY, Ya.M.

Prechamber medium pressure injector gas burners for vertical  
cylindrical and sectional heating boilers. Gaz. proc. 10  
no.7:24-28 '65. (MIRA 18:8)

DORFMAN, L.I., inzh.; TORCHINSKIY, Ya.M., inzh.

Methods for determining the profitability of the installation  
of regenerators in industrial furnaces operating on natural gas.  
Prom. energ. 19 no.8:37-39 Ag '64.

(MIRA 17:11)

TORCHINSKIY, Ya. M.

Features of the hydraulic calculation of sectors of a low-pressure  
gas pipeline. Gaz. delo no.8:30-32 '64. (MIRA 17:9)

1. Ukgiprogorpromgaz.

TORCHINSKIY, Yu. M.  
TORCHINSKIY, Yu. M.

The character of actomyosin and of pellicular actomyosin fiber contraction under the influence of adenosinetriphosphate. I. I. Ivanov and Yu. M. Torchinskiy (1st Moscow Med. Inst. and Central Inst. Post Grad. Physicians, Moscow). *Biokhimiya* 25, 628-634 1980. The contraction of normal fibers of actomyosin, of fibers prepd. by the method of Portset and of pellicular fibers prepd. by the method of Khalyashi is affected by the degree of partial dehydration of the gel. The less the H<sub>2</sub>O content of the gel the lower is the capacity of the fibers to contract in interaction with adenosinetriphosphate. The increase in the fiber firmness whether due to chem. agents or partial denaturation of its constituent proteins results in a corresponding loss in contractility. Orienting the fibers longitudinally fails to increase the rate or extent of the fiber contractility. There appears no basis for the assumption that the mechanism of contraction of pellicular fibers differs from the mechanism of normal actomyosin gel contraction in the presence of adenosinetriphosphate. B. S. Levine

①

TORCHINSKIY, Yu. M.; KORENEVA, L.G.

Optical rotatory dispersion of pyridoxylideneamino acids with  
metal ions. Dokl. AN SSSR 155 no. 4:961-963 Ap '64.  
MIRA 17:5)

1. Institut radiatsionnoy i fiziko-khimicheskoy biologii AN SSSR  
i Institut biologicheskoy fiziki AN SSSR. Predstavleno akademikom  
V.A.Engel'gardtom.

USSR / Human and Animal Physiology. Metabolism.

T-2

Abs Jour : Ref Zhur - Biologiya, No 1, 1959, No. 3064

Author : Torchinskiy, Yu. M.

Inst : ~~Not given~~ *Cent. Inst. of Traumatology, Orthopedics, Min Health USSR*

Title : Microelectrophoretic Analysis of the Protein Composition  
of Muscular Tissue During Ontogeny

Orig Pub : Biokhimiya, 1956, 21, No 5, 510-515

Abstract : Muscular tissue of rabbits, rats, guinea pigs, and chickens of different ages was homogenized, extracted with a phosphate buffer pH 7.7 and the obtained extract subjected to paper electrophoresis. The protein composition of the individual fractions was determined photo-metrically after elution of the corresponding section of the electrophoregram with 1/10 N NaOH. The enzymatic nature of the isolated protein fractions was also determined. In all investigated animal species the phosphorylase

Card 1/2

T-2

USSR / Human and Animal Physiology. Metabolism.

Abs Jour : Ref Zhur - Biologiya, No 1, 1959, No. 3064

and myo-albumin contents were considerably higher in embryonic muscular tissue than in muscles of adult animals. The reverse was noted in the fraction which contained the enzymes of glycolysis (Adolase and Glycerinaldehyde Dehydrase). There were substantial differences in the proteins of this fraction between the "mature-born" (guinea pigs, chickens) and the "non-mature-born" animals (rats, rabbits). Thus, in guinea pigs the protein of this fraction had already begun to rise sharply at the end of the embryonic period (35.2% on the 53rd and 55.7% on the 64th day of embryonic development), whereas rats still retained the embryonic character of protein distribution in the first days after birth. -- V. E. Rozengard

Card 2/2



TORCHINSKIY, Yu. M., Cand of Med Sci -- (diss) "On the nature of curtailing actomyocin under the influence of adenylyl triphosphate in certain model systems. " Leningrad, 1957, 15 pp (Leningrad Pediatric Medical Institute), 250 copies (KL, 37-57, 105)

TORCHINSKIY, Yu.M.

Quantitative determination of succinic dehydrogenase activity  
in a single section of brain tissue [with summary in English]  
Vop.med.khir. 4 no.3:230-235 My-Je '58 (MIRA 11:6)

1. Laboratoriya gistokhimii Instituta mozga AMN SSSR, Moskva.  
(SUCCINIC DEHYDROGENASE,  
activity in single slice of brain tissue, quantitative  
determ. (Rus))  
(BRAIN, metabolism  
succinic dehydrogenase activity in single slice of  
brain tissue (Rus))

TORCHINSKIY, Yu.M.

Cysteine and ethylenediaminetetraacetate reactivation of muscle fibres treated with copper sulfate [with summary in English].  
Vop.med.khim. 4 no.4:285-287 J1-Ag '58. (MIRA 12:2)

L. Chair of Biochemistry of the Leningrad Pediatric Medical Institute  
and Chair of Biochemistry of the 1st Moscow Medical Institute.

(SULFATES, effects,

copper sulfate, on musc. fibers reactivity to  
cysteine & edathamil (Rus))

(EDATHAMIL, effects,

on musc., eff. of copper sulfate on reactivity  
(Rus))

(CYSTEINE, effects,

same)

(MUSCLES, effect of drugs on,

copper sulfate on cysteine & edathamil reactivity  
(Rus))

YAKOVLEV, V.A., TORCHINSKIY, Yu.M.

Ultramicromethod for quantitative determination of thiol  
compounds in tissues [with summary in English]. Biokhimiia  
23 no.5:755-759 S-O '58 (MIRA 11:11)

1. Laboratoriya gistokhimii Instituta moga ANN SSSR, Moskva  
(SULFHYDRYL COMPOUNDS, determ.  
in micro- & ultramicro-lytic tissues (Rus))

EXCERPTA MEDICA Sec 2 Vol 12/8 Physiology Aug 59

3327. ARGENTO- AND MERCURIMETRIC DETERMINATION OF SH-GROUPS IN BLOOD SERUM AND BRAIN HOMOGENATE OF THE CAT (Russian text) - Torchinsky Yu. M. Lab. of Histochem., Inst. of Brain, USSR Acad. of Med. Sci., Moscow - BYULL. EKSPER. BIOL. I MED. 1958, 45/12 (108-109) Tables 1

Simultaneous titration of SH-groups by  $\text{HgCl}_2$  in phosphate buffer was undertaken to ascertain whether appreciable oxidation ('disappearance') of SH-groups takes place in serum and brain homogenate under the effect of ammonium ion in their titration by  $\text{AgNO}_3$  in diluted ammoniacal buffer. The results of the argento- and mercurimetric determinations of SH-groups in serum and brain homogenate were found to coincide completely. These data indicate that in titration of SH-groups by  $\text{AgNO}_3$  in diluted ammoniacal buffer there is no appreciable oxidation or 'disappearance' under the action of ammonium ion.

TORCHINSKIY, Yu.M. (Moskva)

Role of functional (sulfhydryl) groups of actomyosin and adenosintriphosphate in the mechanism of diphasic muscle activity. Usp.sovr. biol. 46 no.1:19-32 J1-Ag '58 (MIRA 11:9)

(MUSCLE, physiology

actomyosin & ATP components in diphasic musc. activity review (Rus))

(MUSCLE PROTEINS, metabolism

actomyosin sulfhydryl cpds. composition, in diphasic musc. activity review (Rus))

(ADENYLPHOSPHATE, metabolism

sulfhydryl cpds. composition, in diphasic musc. activity, review (Rus))

TORCHINSKIY, Yu. M.

Argento- and mercurimetric studies on the sulfhydryl content of blood serum and brain homogenate. Biul. eksp. biol. i med. 46 no.12:108-109 (MIRA 12:1) D '58.

1. Iz laboratorii gistokhimii (zav. - prof. V.V. Portugalov) Instituta mozga (dir. - deystitel'nyy chlen AMN SSSR S.A. Sarkisov) AMN SSSR, Moskva. Predstavlena deystvitel'nyy chlenom AMN SSSR S.R. Mardashevym.

(SULFHYDRIL COMPOUNDS, determ.

in blood & brain homogenates, silver & mercury methods (Rus))

(BRAIN, metab.

sulfhydryl cpds., silver & mercury methods of determ. (Rus))

TORCHINSKIY, Yu.M.

Activity of dehydrogenase systems and amount of sulfhydryl groups in certain parts of cat brain. Biokhimiia 24 no.3: 496-502 My-Je '59. (MIRA 12:9)

1. Laboratory of Histochemistry, the Brain Institute, Academy of Medical Sciences of the U.S.S.R., Moscow.

(BRAIN, metab.

dehydrogenase & sulfhydryl cpds. (Rus))

(DEHYDROGENASE,

in brain in cats (Rus))

(SULFHYDRYL COMPOUNDS, metab.

brain, in cats (Rus))



TORCHINSKIY, Yu.M.

Studying mercapto groups of myosin by the method of amperometric titration. Ukr.biokhim.zhur. 31 no.4:589-595 '59. (MIRA 13:1)

1. Laboratory of Histochemistry of the Brain Institute of the Academy of Medical Sciences of the U.S.S.R.  
(MYOSIN) (MERCAPTO GROUP) (CONDUCTIONOMETRIC ANALYSIS)

*TORCHINSKIY, Yu. M.*

TORCHINSKIY, Y. M. (USSR)

"Examination of the Glutamic-Alanine Transaminase of the Heart."

Report presented at the 5th International Biochemistry Congress, Moscow,  
10-16 August 1961

TORCHINSKIY, Y. M., KHOMUTOV, R. M., GNUCHEV, N. V., KARPEYSKIY, M. V.,  
POLYANOVSKIY, O. L., and SEVERIN, YE. S. (USSR)

"The Mechanism of the Inhibition of Pyridoxal Enzymes by Cyloserine  
and Related Hydorxylamine Derivatives."

Report presented at the 5th International Biochemistry Congress,  
Moscow, 10-16 Aug 1961

PORTUGALOV, W.W. [Portugalov, V.V.] (Moscow); GERSTEIN, L.M. [Gershteyn, L.M.] (Moscow); TORCZYNSKI, J.M. [Torchinskiy, Yu. N.] (Moscow)

The behavior of mitochondria in some physiological and pathological states of nervous cells. Folia Morphologica 12 no. 2/3:137-146 '61.

1. Instytut Badan Mozgu, Akademia Nauk Medycznych Z.S.R.R., Moskwa, B-120, Obucha 5.

4

TORCHINSKIY, Yu.M. (Moskva)

Role of mercapto groups in the formation of catalytically active  
structure of enzymes and the mechanism of their action. Usp.sovr.  
biol. 51 no.3:261-284 My-Je '61. (MIRA 14:6)  
(MERCAPTO GROUP) (ENZYMES)

TORCHINSKIY, Yu.M.

Spectral properties of alanine-glutamic transaminase. Dokl.AN SSSR  
138 no.6:1464-1466 Je '61. (MIRA 14:6)

1. Institut radiatsionnoy i fiziko-khimicheskoy biologii AN SSSR.  
Predstavleno akademikom V.A.Engel'gardtom.

GLUTAMIC-PYRUVIC TRANSAMINASE--SPECTRA)

POLYANOVSKIY, O.L.; TORCHINSKIY, Yu.M.

Effect of cycloserine and related compounds on the activity of  
aspartic-glutamic transaminase and alanine-glutamic transaminase  
of the swine heart. Dokl. AN SSSR 141 no.2:488-491 N '61.  
(MIRA 14:11)

1. Institut radiatsionnoy i fiziko-khimicheskoy biologii AN SSSR.  
Predstavleno akademikom V.A.Engel'gardtom.

(IZOXAZOLIDINONE) (GLUTAMIC OXALACETIC TRANSAMINASE)  
(GLUTAMIC-PYRUVIC TRANSAMINASE)

POLYANOVSKIY, O.L.; TORCHINSKIY, Yu.M.; Primali uchastiye:  
MALKOVA, M.G.; KOSAREVA, Ye.A.; SISAKYAN, N.M., akademk,  
glav. red.; BAYEV, A.A., zam. glav. red.; BRAUNSHTEYN,  
A.Ye., red. toma; VETROVA, I.B., red. izd-va; ZUDINA, V.I.,  
tekhn. red.; DOROKHINA, I.N., tekhn. red.

[Molecular mechanism of enzyme action and inhibition; symposium 4]  
Molekuliarnye osnovy deistviia i tormozheniia fermentov; simpo-  
zium IV. Moskva, Izd-vo Akad. nauk SSSR, 1962. 361 p. (Its:  
Trudy) (MIRA 16:2)

1. International Congress of Biochemistry. 5th, Moscow, 1961.
2. Chlen-korrespondent Akademii nauk SSSR (for Braunshteyn).  
(ENZYMES)



TORCHINSKIY, Yu.M.; BRAUNSHTEYN, A.Ye.

Role of sulfhydryl groups in maintaining the catalytically active structure of aspartic-glutamic transaminase. Dokl. AN SSSR 148 no.4:952-955 F '63. (MIRA 16:4)

1. Institut radiatsionnoy i fiziko-khimicheskoy biologii AN SSSR. 2. Chlen-korrespondent AN SSSR (for Braunshteyn). (Mercapto group) (Glutamic-oxalacetic transaminase)

TOBCHINSKIY, Yu.M. (Moskva)

Properties of S H- and S-S groups and causes of changed  
reactivity of these groups in protsins. Usp. sovr. biol. 55  
no.2:161-181 '63. (MIRA 17:8)

BRAUNSHTEYN, A.Ye.; TORCHINSKIY, Yu.M.; MALAKHOVA, E.A.; SINITSYNA, N.I.

Interaction of aspartate aminotransferase with pyridoxamine phosphate  
and its analogs. Ukr. biokhim. zhur. 37 no.5:671-678 '65. (MIRA 18:10)

1. Institut molekulyarnoy biologii AN SSSR, Moskva.

TORCHINSKIY, Yu.M.; KORENEVA, L.G.

Effect of substrate analogs and carbonyl reagents on the  
anomalous optical rotatory dispersion in aspartic-glutamic  
transaminase of the heart. Biokhimiia 29 no.4:780-790  
Jl-Ag '64. (MIRA 18:6)

1. Institut radiatsionnoy i fiziko-khimicheskoy biologii i  
Institut biologicheskoy fiziki AN SSSR, Moskva.

TORCHINSKIY, Yu.M.; KORSNEVA, L.S.

Study of the anomalous dispersion of the optic rotation of metal  
chelates of amines of  $\alpha$ -amino acids and their derivatives as  
a method of determining configuration of the asymmetric center.  
Bukhmina 30 no. 1019-41 Sep 1965. (MIRA 1966)

1. Institut radiatsionnoy i fiziko-khimicheskoy biologii i  
Institut biologicheskoy fiziki AN SSSR, Moskva.

TORCHINSKIY, Yu.M.

Aspartic-glutamic apotransaminase interaction with pyridoxal phosphate and some of its derivatives. Biokhimiia 28 no.4: 731-740 J1-Ag '63. (MIRA 18:2)

1. Institut radiatsionnoy i fiziko-khimicheskoy biologii AN SSSR, Moskva.

MALAKHOVA, E.A.; TORCHINSKIY, Yu.M.

Isolation of coenzyme-quasisubstrate complex from aspartic-glutamic transaminase. Dokl. AN SSSR 161 no.5:1224-1226 Ap '65. (MIRA 18:5)

1. Institut radiatsionnoy i fiziko-khimicheskoy biologii AN SSSR.  
Submitted July 4, 1964.

TORCHINSKIY, Yu.M.

Interactions of mercaptide-forming reagents with heart aspartate-glutamate transaminase. Biokhimiia 29 no.3:534-544 My-Je '64.  
(MIRA 18:4)

1. Institut radiatsionnoy i fiziko-khimicheskoy biologii AN  
SSSR, Moskva.



TORCHINSKIY, Yu.M.; KORENEVA, L.G.

Anomalous dispersion of the optical rotation of the aspartic-  
glutamic transaminase in the heart. Biokhimiia 28 no.6:  
1087-1098 N-D\*63 (MIRA 17:1)

1. Institute of Radiation and Physical-Chemical Biology and  
Institute of Biophysics, Academy of Sciences of the U.S.S.R.,  
Moscow.

TORCHINSKIY, Yu.M.; SHPIKITER, V.O.

Interaction between sodium dodecyl sulfate and aspartate-glutamate-  
transaminase. Dokl. AN SSSR 152 no.3:751-753 S '63. (MIRA 16:12)

1. Institut radiatsionnoy i fiziko-khimicheskoy biologii AN  
SSSR i Institut biologicheskoy i meditsinskoy khimii AMN SSSR.  
Predstavleno akademikom V.A.Engel'gardtom.

\*

TORCHINSKIY, Yu. M.; KORENEVA, L. G.; BRAUNSHTEYN, A. Ye.

"Studies on the Rotatory Dispersion of Aspartateglutamate Transaminase."

report ~~to be~~ submitted for 6th Intl Biochemistry Cong, New York City, 26 Jul-1 Aug  
1964.

BELINSKIY, S.B.; CHERNYAK, D.A.; LABUTIN-GORSKIY, Yu.V.; KAUFMAN, A.A.;  
TORCHITSA, A.B.

Group repairs of chambers of coke ovens. Koks i khim. no.5:49-52  
'58. (MIRA 11:6)

1. Kaliningradskiy koksogazovyy zavod (for Belinskiy, Chernyak,  
Labutin-Gorskiy). 2. Teplotekhnstantsiya (for Kaufman). 3. Kokso-  
khimmontazh (for Torchitsa).  
(Coke ovens)

68-58-5-14/25  
AUTHORS: Belinskiy, S.B., Chernyak, D.A., Labutin-Gorskiy, Yu.V.,  
Kaufman, A.A. and Torchitsa, A.B.

TITLE: Group Repairs of Coke Ovens (Gruppovoy remont kamer  
koksovykh pechey)

PERIODICAL: Koks i Khimiya, 1958, Nr 5, pp 49 - 52 (USSR).

ABSTRACT: A partial rebuilding of coke ovens in groups without  
interrupting the production of remaining ovens is described in  
some detail. There are 2 figures.

ASSOCIATION: Kaliningradskiy koksogazovyy zavod (Kaliningrad Coke  
and Gas Works), Teplotekhstantsiya and Koksokhimmontazh

Card 1/1

Translation from: SOV/35-59-8-6812  
Referativnyy zhurnal, Astronomiya i Geodeziya, 1959,  
Nr 8, p 103

AUTHOR:

Torchun, M.I.

TITLE:

An Investigation of Circle Graduation in TG-1 Theodolites  
of KhZMI

PERIODICAL:

Nauchn. tr. Khar'kovsk. gorn. in-ta, 1958, Nr 4, pp 35 - 41

ABSTRACT:

Five circles of TG-1 theodolites were investigated in order to determine the errors of circle graduation performed by means of automatic circular graduation machines operating under industrial conditions. The determination of errors in circle diameters was performed by the two-angle method with the aid of a graduating machine. Angles between two pairs of microscopes were set at  $45^\circ$  in the first series and  $60^\circ$  in the second one (with re-setting the circle through  $5^\circ$  from one series to another). The correctness of observations of each series was checked by the magnitude

Card 1/2

Card

DEMURYAN, G.S.; TORCHYAN, A.K.

Comparative activity of the catalase enzyme in winter wheat.  
Izv. AN Arm. SSR. Biol. nauki 17 no.7:73-77 Ji '64.

(MIRA 17:10)

1. Institut zemledeliya Ministerstva sel'skogo khozyaystva  
Armyanskoy SSR.

TORCHYAN, A.K.

Results of experiments with the new [Egvardi-4" winter wheat  
variety [in Armenian with summary in Russian]. Izv.AN Arm.SSR.Biol.1  
sel'khoz.nauki 4. no.8:711-719 '51. (MLRA 9:8)  
(Armenia--Wheat--Varieties)



TORCHIAN, A. K.

"The Variability of Some Characteristics of New Lines of Winter Wheats  
Under Various Ecological Conditions." Cand Agr Sci, Inst of Genetics and  
Plant Selection, Acad Sci Armenian SSR, Yerevan, 1953. (RZhBiol, No 7, Dec 54)

Survey of Scientific and Technical Dissertations Defended at USSR  
Higher Educational Institutions (12)  
SC: Sum. No. 556, 24 Jun 55

TORCHYAN, A.K.

Data on corn cultivation in the Ararat Plain [in Armenian with  
summary in Russian]. Izv.AN.Arm.SSR.Biol.i sel'khoz.nauki 9  
no.10:65-69 '56. (MLRA 9:12)  
(Ararat region--Corn (Maze))

SULIKOWSKI, Jerzy; TORCZYNSKI, Kazimierz

The influence of false setting on bleeding of cement mortar.  
Ceramika 32 no.4:63-73 '61.

1. Katedra Technologii Materialow Wiazacych Akademii Gorniczo  
Hutniczej, Krakow.

TORDA, MARTIN

Dezinfekcia v zivocisnej vyrobe. (1. vyd.)

V Bratislave, Czechoslovakia, Slovenske vydavatelstvo podohospodarskej literature,  
1958, 118p.

Monthly List of East European Accessions (EEAI), LC, Vol. 8, No. 9, September 1959.

Unclassified.

TORDAI, Daniel

Problems relating to the further education and employment of technicians. Faipar 8 no.1/2:59 Ja-F '58.

TORDAI, Eva, dr.

Therapy of subungual hematoma. Orv.hetil. 101 no.4:127-128  
Ja '60.

1. A Magyar Nephadsereg Egesszsegugyi Szolgálat.  
(HEMATOMA surg.)  
(NAILS dis.)

TORDAI, Ferenc

Technical development and incentive awards. Musz elet 18 no.15:  
3 18 J1 '63.

TORDAI, GY.

"Janos Horarik's fight against feudalism and the church." p. 526. (Terneszeti  
Technika, Vol. 112, no. 9, Sept 53, Budapest)

SO: Monthly List of East European Accessions, Vol 3 No 2 Library of Congress Feb 54 Uncl



TOUHI, J.

Development of our industry for precision machines. p. 20.

Activists of the Federation of Technological and Scientific Associations at the  
Leipzig Fair. p. 23.  
(MASZAKI ELET. No. 7, Apr. 1955. Budapest.)

SO: Monthly List of East European Accession. (EEAL). Lc. Vol 1 Nov. 11 Nov. 1955 Uncl.

TORDAI, Pal, dr., tervosztalyvezeto (Budapest)

Some questions of electric power production and distribution in Hungary during the period of the second five-year plan. Term tud kozl 4 no. 11: 485-488 N '60.

TORDAI, Zador, tudományos munkatárs

International philosophical conference in Budapest.  
Magy tud 70 no.10:713-715 0 '63.

1. Magyar Tudományos Akadémia Filozófiai Intézete.

TORDAY, Aliz

From the Tutankhamen's throne to shell armchairs. Elet tud 16 no.41:  
Suppl.:Tarkatudomany 2 no.21:161-163 8 0 '61.

ZURABASHVILI, A.D., akademik; KVALIASHVILI, A.A.; SEMENSKAYA, Ye. M.;  
NANEYSHVILI, B.R.; SHANIDZE, V.S.; KANDELAKI, K.I.; MACHABELI,  
M.I.; TORDIYA, M.V.

Effect produced on the organism by nonpenetrating cranial traumas  
combined with radiation injury. Soob. AN Gruz. SSR 20 no. 4:497-  
504 4p '58. (MIRA 11:7)

1. AN GruzSSR (for Zurabashvili). 2. Tbilisskiy gosudarstvennyy  
meditsinskiy institut.

(BRAIN CONCUSSION)  
(X RAYS--PHYSIOLOGICAL EFFECTS)

MUKHADZE, M.G.; TORDIYA, M.V.

Changes in the blood coagulation system in araphy factor  
shock. Trudy Inst. eksp. i klin. khir. i gemat. AN Gruz.  
SSR 11:163-167 '61. (MIR: 17:8)

KIPSHIDZE, N.N.; TORDIYA, M.V.; DZHAVAKHISHVILI, N.N.

Changes in the blood system in longevity. Probl. gemat. i perel.  
krovi 10 no.2:32-36 F '64. (MIRA 19:1)

1. Nauchno-issledovatel'skiy institut eksperimental'noy i klini-  
cheskoy terapii (dir. - doktor med. nauk N.N. Kipshidze) Mini-  
sterstva zdravookhraneniya Gruzinskoy SSR.

KIPSHIDZE, N. N.; CHUMURIDZE, T. I.; TKESHELASHVILI, L. K.; TVINDIANI, D. D.;  
TORDIYA, M. V.; DUMBADZE, Z. G.; SALUKVADZE, N. S.; DEDASHVILI, K. A.;  
GAVAKHISHVILI, N. N.

Studies on Cardiovascular System, some Biochemical, Hematologic and  
Haemostatic Blood Indications in Old Age. Clinical Cardiology

Gerontology, 6th International Congress, Copenhagen, Denmark  
11-16 August 1963



Todorova, T.

Eroded crusts of serpentine rocks in the upper part of the Arda River  
near Dzhebel Railroad Stop and the village of Svetulka. p. 55.

Bulgarska akademija na naukite. Geologicheski institut. IZVESTIA. Sofia,  
Bulgaria. Vol. 7, 1959.

Monthly list of East European Accessions Index (EEAI), LC, Vol.<sup>8</sup>/no. 12,  
December 1959.  
Uncl.

TORDUA, G.A., Cand Tech Sci -- (diss) "Study of certain factors effecting the <sup>outflow</sup> ~~emission~~ of water and bleached sulphite cellulose <sup>pulp</sup> ~~mass~~ through an <sup>vibrating</sup> ~~oscillating~~ sieve with round holes." Len, 1959, 15 pp with drawings (Min of Higher Education USSR. Len Order of Lenin of Forestry <sup>Engineering</sup> Acad in S.M. Kirov) 150 copies (KL, 28-59, 128)

TOREK, Endre, dr.; TARNAY, Judit, dr.

Inguinal hernia in childhood. Orv. hetil. 98 no.14:351-353 7 Apr 57.

1. A Hevesmegyei Tanács Kórháza (igazgató: Bocz, Sándor, dr.)
- II. sz. Sebészeti Osztályának (főorvos: Poka, László, dr.) közleménye.

(HERNIA, INGUINAL, in inf. & child  
surg., indic. technics & follow-up (Hun))

PEYCHEV, P. (Plovdiv, Bolgariya); STOYCHEV, I. (Plovdiv, Bolgariya);  
TOREVA, D. (Plovdiv, Bolgariya); SHAULOV, I. (Plovdiv,  
Bolgariya); YORISH, N.P. (Moskva)

Milk for queen bees. Priroda 53 no.5:115-116 '64.

(MIRA 17:5)